

## DATA EVALUATION RECORD

1. Chemical: BAS-317
2. Test Material: Technical
3. Study Type: Honeybee acute contact LD<sub>50</sub>

Species tested: Apis mellifera

4. Study ID: Atkins, E.L., D. Kellum, and K.J. Neuman (1976)  
Project No. 1499, 1976 Annual Report. File  
Symbol 372-AU. Accession Number 261692.

5. Reviewed By: Allen W. Vaughan  
Entomologist  
EEB/HED

Signature: *Allen W. Vaughan*

Date: *6/24/86*

6. Approved By: Norman Cook  
Supervisory Biologist  
EEB/HED

Signature: *Norman Cook*

Date: *6.24.86*

7. Conclusions:

This study is scientifically sound. With a 48-hour LD<sub>50</sub> greater than 181 micrograms per bee, BAS-317 is considered essentially nontoxic to honeybees.

This study fulfills the Guideline requirement for an acute contact toxicity test on honeybees with the technical grade of the pesticide.

8. Recommendations: N/A.

9. Background:

This study was submitted by the registrant in support of registration.

10. Discussion of Individual Test: N/A.



# 11. Materials and Methods:

- a. Test Animals: worker honeybees, Apis mellifera, obtained from university colonies.

Test System: BAS-317 was blended with a nontoxic dust diluent, pyrolite; dust mixture was distributed over bees in cages using a bell jar duster. Dusted bees were transferred into clean holding cages and provided with 50% honey/water solution. Bees were kept at 80° F and 65% relative humidity.

- b. Dose: Dust application using bell jar; pyrolite dust diluent.
- c. Design: Approximately 100 bees per dose level and control, divided into 3 reps.; replicated 3 times over time.
- d. Statistics: Due to very low mortality, no analysis was performed.

# 12. Reported Results:

The study authors found that BAS-317 was nontoxic to honeybees at the highest dosage tested (181.29 micrograms per bee). Thus, LD<sub>50</sub> value is determined to be greater than 181.29 micrograms per bee.

# 13. Study Author's Conclusions/QA Measures:

48-hour LD<sub>50</sub> greater than 181.29 micrograms per bee (technical material).

# 14. Reviewer's Discussion and Interpretation of the Study:

- a. Test Procedures: Test procedures were in accordance with protocols recommended in the Guidelines. There were no problems in this regard.
- b. Statistical Analysis: Due to very low mortality at all treatment levels, no analysis was performed.
- c. Discussion/Results: With a 48-hour acute contact LD<sub>50</sub> greater than 181.29 micrograms per bee, BAS-317 technical is practically nontoxic to honeybees.

d. Adequacy of Study:

- (1) Classification = Core.
- (2) Rationale: Guidelines protocol; technical grade  
ai test.
- (3) Reparability: N/A.

15. Completion of One-Liner For Study: N/A.

16. CBI Appendix: N/A.